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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,739	10/06/2005	Dirk Steinbuch	10191/4221	9286
	7590 06/11/2007	1	EXAMINER	
KENYON & KENYON LLP ONE BROADWAY			CHEN, SHELLEY	
NEW YORK,	NY 10004		ART UNIT PAPER NUMBER	
			3662	
			MAIL DATE	DELIVERY MODE
			06/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application No.	Applicant(s)			
		10/535,739	STEINBUCH, DIRK			
		Examiner	Art Unit			
		Shelley Chen	3662			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Deperiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the triple of triple of the triple of	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 06 O	ctober 2005.				
2a) <u></u> ☐	This action is FINAL. 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.			
Disposit	ion of Claims					
4) 🖂	4)⊠ Claim(s) <u>14-26</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
· · ·	Claim(s) <u>14-26</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers	·.				
9)🖂	The specification is objected to by the Examine	r.				
10)⊠	The drawing(s) filed on 18 May 2005 is/are: a)	\square accepted or b) $oxtime$ objected to	by the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct		·			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Offic	ee Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents		a)-(d) or (f).			
	2. Certified copies of the priority documents		ation No			
	3. Copies of the certified copies of the prior	• •				
	application from the International Bureau	u (PCT Rule 17.2(a)).				
* (See the attached detailed Office action for a list	of the certified copies not receive	ved.			
Attachmer		_				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail I				
3) Infor	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal 6) Other:				

DETAILED ACTION

Drawings

- 1. Figure 5 is objected to because reference character "19" has been used to designate both curves.
- 2. Figure 4 is objected to because curves 15-17 are too small to be legible.
- 3. The drawings are objected to because the claimed "spectral lines" are never labeled nor identified by a reference number.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities: The acronym "CF" is not defined (throughout specification).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 14-26 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim limitation "without causing decorrelation" in the independent claims 14 and 17 is indefinite. It is unclear if the decorrelation refers to decorrelation of the modulated pulse signal with respect to the unmodulated pulse signal, or decorrelation of the modulated or unmodulated pulse signal with respect to some other signal.

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It is also unclear whether the claim limitation "without causing decorrelation" means without causing *any* degree of decorrelation at all, without causing a significant degree of decorrelation, or without causing some other degree of decorrelation.

The examiner will assume that the claim limitation "without causing decorrelation" means without causing <u>any degree</u> of decorrelation between the modulated and unmodulated pulse signals. As best understood by the examiner, claims 14-26 will be treated on the merits in this office action.

Allowable Subject Matter

7. Claims 14-26 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112 set forth in this Office action, such that the claim limitation "without causing decorrelation" in independent claims 14 and 17 is rewritten to describe modulation without causing <u>any degree of decorrelation between the modulated and unmodulated pulse signals</u>.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelley Chen whose telephone number is (571) 270-1330. The examiner can normally be reached Mondays through Thursdays and on alternate Fridays, between 10:00 AM and 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached at (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shelley Chen,

Patent Examiner

Shelley Chen

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June 4, 2007

THOMAS H. TARCZA SUPERVISORY PATENT EXAMINER

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TECHNOLOGY CENTER 3600